



PATENT
Docket No. 5634.318

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: John C. Harvey and James W. Cuddihy

Group Art Unit: *2602*

Serial No.: 08/487,411

Examiner:

Filing Date: June 7, 1995

For: Signal Processing Apparatus and Methods

Assistant Commissioner of Patents
Washington D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Patent No.</u>
08/113,329	August 30, 1993	Pending
08/056,501	May 3, 1993	5,335,277
07/849,226	March 10, 1992	5,233,654
07/588,126	September 25, 1990	5,109,414
07/096,096	September 11, 1987	4,965,825
06/829,531	February 14, 1986	4,704,725

06/317,510

November 3, 1981

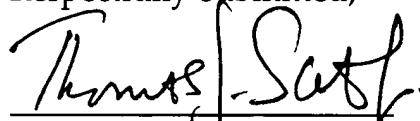
4,694,490

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the priority applications. Therefore, no copies of the listed references are provided herewith. It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office action on the merits, no certification or fee is required.

Respectfully submitted,



Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: September 5, 1995

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PTO 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method	Attorney Docket No. 5634.318	Serial No. 08/487,411
	Applicants John C. Harvey and James W. Cuddihy	
	Filing Date: June 7, 1995	Group:

U.S. Patent Documents

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	2,511,085	June 13, 1950	Smith	179/1	
	2,573,349	Oct. 30, 1951	Miller et al.	177/353	
	2,769,023	Oct. 30, 1956	Loew et al.	178/5.1	
	2,788,387	Apr. 9, 1957	Druz	178/5.1	
	2,864,885	Dec. 16, 1958	Morris	178/5.1	
	2,866,962	Dec. 30, 1958	Ellet	340/147	
	3,016,091	Jan. 9, 1962	Daniele	162/391	
	3,071,642	Jan. 1, 1963	Mountjoy et al.	178/5.1	
	3,213,201	Oct. 19, 1965	Flood et al.	179/15	
	3,238,297	Mar. 1, 1966	Pawley et al.	178/22	
	3,363,250	Jan. 9, 1968	Jacobson	343/225	
	3,493,674	Feb., 1970	Houghton	178/5.6	
	3,531,586	Sept. 29, 1970	Bass et al.	178/6	
	3,536,833	Oct. 27, 1970	Guanella	178/22	
	3,569,937	Mar. 9, 1971	Hoetter	340/171	
	3,573,747	Apr. 6, 1971	Adams et al.	340/172.5	
	3,584,142	June 8, 1971	Schoeffler	178/6.8	
	3,601,528	Aug. 24, 1971	McVoy	178/5.1	
	3,609,697	Sept. 28, 1971	Blevins et al.	340/172.5	
	3,657,699	Apr. 18, 1972	Rocher et al.	340/146.1	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,659,046	Apr. 25, 1972	Angeleri et al.	178/22	
	3,668,307	June 6, 1972	Face et al.	178/5.6	
	3,684,823	Aug. 15, 1972	McVoy	178/5.1	
	3,693,090	Sept. 19, 1972	Gabriel	325/308	
	3,703,684	Nov. 21 1972	McVoy	325/31	
	3,725,672	Apr. 3, 1973	Reuter	307/208	
	3,729,581	Apr. 24, 1973	Anderson	178/6.8	
	3,731,197	May 1, 1973	Clark	325/32	
	3,733,430	May 15, 1973	Thompson et al.	178/5.1	
	3,736,369	May 29, 1973	Vogelman et al.	178/5.1	
	3,749,845	July 31, 1973	Fraser	179/15	
	3,752,908	Aug. 14, 1973	Boenke et al.	178/5.6	
	3,757,225	Sep. 4, 1973	Ukicki	325/308	
	3,773,977	Nov. 20, 1973	Guanella	179/1.5	
	3,777,053	Dec. 4, 1973	Wittig et al.	178/5.1	
	3,789,137	Jan. 29, 1974	Newell	178/6.6	
	3,790,700	Feb. 5, 1974	Callais et al.	178/5.1	
	3,798,359	Mar. 19, 1974	Feistel	178/22	
	3,798,610	Mar. 19, 1974	Bliss et al.	340/172.5	
	3,803,491	Apr. 9, 1974	Osborn	325/53	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,806,814	Apr. 23, 1974	Forbes	325/309	
	3,819,852	June 25, 1974	Wolf	178/5.6	
	3,824,332	July 16, 1974	Horowitz	178/5.1	
	3,824,467	July 16, 1974	French	325/32	
	3,825,893	July 23, 1974	Bossen et al.	340/146.1	
	3,833,757	Sept. 3, 1974	Kirk, Jr. et al.	178/5.6	
	3,835,387	Sep. 10, 1974	Rookes et al.	325/55	
	3,842,196	Oct. 15, 1974	Louglin	358/12	
	3,845,391	Oct. 29, 1974	Crosby	325/64	
	3,848,193	Nov. 12, 1974	Martin et al.	325/53	
	3,882,392	May 6, 1975	Harney	325/53	
	3,885,089	May 20, 1975	Callais et al.	178/5.1	
	3,886,302	May 27, 1975	Kosco	178/5.1	
	3,886,454	May 27, 1975	Oakley et al.	325/52	
	3,890,461	June 17, 1975	Vogelman et al.	178/5.1	
	3,891,792	June 24, 1975	Kimura	178/5.8R	
	3,893,031	July 1, 1975	Majeau et al.	325/32	
	3,894,176	July 8, 1975	Mellon	178/5.1	
	3,899,633	Aug. 12, 1975	Sorenson et al.	178/5.1	
	3,911,216	Oct. 7, 1975	Bartek et al.	178/22	
	3,914,534	Oct. 21, 1975	Forbes	178/5.1	

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	3,916,091	Oct. 28, 1975	Kirk, Jr. et al.	178/5.1	
	3,919,462	Nov. 11, 1975	Hartung et al.	178/5.1	
	3,921,151	Nov. 18, 1975	Guanella	340/172.5	
	3,924,187	Dec. 2, 1975	Dormans	325/52	
	3,934,079	Jan. 20, 1976	Barnhart	178/5.1	
	3,936,593	Feb. 3, 1976	Aaronson et al.	178/5.1	
	3,936,594	Feb. 3, 1976	Schubin et al.	178/5.1	
	3,936,595	Feb. 3, 1976	Yanagimachi et al.	178/5.6	
	3,943,447	Mar. 9, 1976	Shomo, III	325/308	
	3,947,882	Mar. 30, 1976	Lightner	360/92	
	3,949,313	Apr. 6 1976	Tamada et al.	329/106	
	3,956,615	May 11, 1976	Anderson et al.	235/61.7B	
	3,970,790	July 20, 1976	Guanella	179/1.5S	
	3,975,583	Aug. 17, 1976	Meadows	175/5.6	
	3,978,449	Aug. 31, 1976	Sanders et al.	340/146.1	
	3,987,398	Oct. 19, 1976	Fung	325/309	
	3,988,528	Oct. 26, 1976	Yanagimachi et al.	178/5.6	
	3,997,718	Dec. 14, 1976	Ricketts et al.	178/6.8	
	4,024,574	May 17, 1977	Nieson	358/117	
	4,025,851	May 24, 1977	Hazelwood et al.	325/31	
	4,025,947	May 24, 1977	Michael	358/86	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,025,948	May 24, 1977	Loshin	358/122	
	4,031,548	June 21, 1977	Kato et al.	358/188	
	4,048,619	Sept. 13, 1977	Forman, Jr. et al.	340/154	
	4,049,906	Sept. 20, 1977	Hafner et al.	178/2C	
	4,054,911	Oct. 18, 1977	Fletcher et al.	358/141	
	4,058,830	Nov. 15, 1977	Gulnet et al.	358/86	
	4,068,264	Jan. 10, 1978	Pires	358/122	
	4,079,419	Mar. 14, 1978	Siegle et al.	358/193	
	4,081,612	Mar. 28, 1978	Hafner	179/15BA	
	4,081,753	Mar. 28, 1978	Miller	325/396	
	4,081,831	Mar. 28, 1978	Tang et al.	358/114	
	4,091,417	May 23, 1978	Nieson	358/117	
	4,104,486	Aug. 1, 1978	Martin et al.	179/2	
	4,107,735	Aug. 15, 1978	Frohbach	358/84	
	4,112,464	Sept. 5, 1978	Gulf et al.	358/122	
	4,115,662	Sept. 19, 1978	Gulnet et al.	179/15BV	
	4,115,807	Sept 19, 1978	Pires	358/122	
	4,120,030	Oct. 10, 1978	Johnstine	364/200	
	4,130,833	Dec. 19, 1978	Choenet	358/122	
	4,131,881	Dec. 26, 1978	Robinson	340/167R	
	4,138,726	Feb. 6, 1979	Girault et al.	364/521	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,160,120	July 3, 1979	Barnes et al.	178/22	
	4,161,751	July 17, 1979	Ost	358/114	
	4,163,254	July 31, 1979	Block et al.	358/122	
	4,163,255	July 31, 1979	Pires	358/122	
	4,168,396	Sept. 18, 1979	Best	178/22	
	4,170,782	Oct. 9, 1979	Miller	358/84	
	4,171,513	Oct. 16, 1979	Otey et al.	325/32	
	4,172,213	Oct. 23, 1979	Barnes et al.	178/22	
	4,186,413	Jan. 29, 1980	Mortimer	358/146	
	4,196,310	Apr. 1, 1980	Forman et al.	178/22	
	4,200,770	Apr. 29, 1980	Hellman et al.	178/22	
	4,200,913	Apr. 29, 1980	Kuhar et al.	364/900	
	4,205,343	May 27, 1980	Barrett	358/147	
	4,213,124	July 15, 1980	Barda et al.	340/706	
	4,215,366	July 29, 1980	Davidson	358/124	
	4,215,370	July 29, 1980	Kirk, Jr.	358/146	
	4,225,884	Sept. 30, 1980	Block et al.	358/122	
	4,225,967	Sep. 30, 1980	Miwa et al.	455/68	
	4,230,990	Oct. 28, 1980	Lert, Jr et al.	455/67	
	4,232,193	Nov. 4, 1980	Gerard	179/1.5R	
	4,236,217	Nov. 25, 1980	Kennedy	364/483	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,237,484	Dec. 2, 1980	Brown et al.	358/142	
	4,245,245	Jan. 13, 1981	Matsumoto et al.	358/122	
	4,247,106	Jan. 27, 1981	Jeffers et al.	273/85G	
	4,250,524	Feb. 10, 1981	Tomizawa	358/122	
	4,253,114	Feb. 24, 1981	Tang et al.	358/114	
	4,253,157	Feb. 24, 1981	Kirschner et al.	364/900	
	4,262,329	Apr. 14, 1981	Bright et al.	364/200	
	4,264,924	Apr. 28, 1981	Freeman	358/86	
	4,264,925	Apr. 28, 1981	Freeman et al.	358/86	
	4,266,243	May 5, 1981	Shutterly	358/121	
	4,275,411	June 23, 1981	Lippel	358/13	
	4,283,602	Aug. 11, 1981	Adams et al.	179/1.5R	
	4,284,976	Aug. 18, 1981	Gable et al.	340/147	
	4,286,281	Aug. 25 1981	Suzuki	358/4	
	4,287,592	Sept. 1, 1981	Paulish et al.	370/88	
	4,288,809	Sept. 8, 1981	Yabe	358/12	
	4,290,141	Sept. 15, 1981	Anderson et al.	455/2	
	4,290,142	Sept. 15, 1981	Schnee et al.	455/3	
	4,292,650	Sept. 29, 1981	Henderickson	358/173	
	4,295,223	Oct. 13, 1981	Shutterly	455/72	
	4,302,771	Nov. 24, 1981	Gargini	358/86	July 23, 1980

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	4,304,990	Dec. 8, 1981	Atalla	235/380	Feb. 4, 1980
	4,305,101	Dec. 8, 1981	Yarbrough et al.	360/69	Apr. 16, 1979
	4,305,131	Dec. 8, 1981	Best	364/521	
	4,305,131	Dec. 8, 1981	Best	364/521	Mar. 31, 1980
	4,306,289	Dec. 15, 1981	Lumley	364/200	Feb. 4, 1980
	4,306,305	Dec. 15, 1981	Doi et al.	371/38	Oct. 19, 1979
	4,307,446	Dec. 22, 1981	Barton et al.	364/200	May 2, 1979
	4,310,854	Jan. 12, 1982	Baer	358/143	Aug. 29, 1979
	4,312,016	Jan. 19, 1982	Glaab et al.	358/188	Feb. 2, 1979
	4,313,132	Jan. 26, 1982	Doles et al.	358/114	Oct. 31, 1979
	4,314,367	Feb. 2, 1982	Bakka et al.	370/60	Jan. 17, 1980
	4,316,055	Feb. 16, 1982	Feistel	178/22.06	Dec. 30, 1976
	4,316,245	Feb. 16, 1982	Luu et al.	364/200	Dec. 7, 1978
	4,318,125	Mar. 2, 1982	Shutterly	358/121	Apr. 25, 1979
	4,319,079	Mar. 9, 1982	Best	178/22.09	Jan. 17, 1980
	4,322,745	Mar. 30, 1982	Saeki et al.	358/123	Mar. 21, 1980
	4,323,921	Apr. 6, 1982	Guillou	358/114	Jan. 23, 1980
	4,323,922	Apr. 6, 1982	den Toonder et al.	358/117	Dec. 17, 1979
	4,325,078	Apr. 13, 1982	Seatom et al.	358/117	Nov. 20, 1979
	4,329,675	May 11, 1982	Van Hulle	358/86	Sep. 23, 1980
	4,329,684	May 11, 1982	Monteath et al.	340/707	Jan. 15, 1980

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	4,331,973	May 25, 1982	Eskin et al.	358/84	Oct. 20, 1980
	4,331,974	May 25, 1982	Cogswell et al.	358/86	Oct. 21, 1980
	4,332,980	June 1, 1982	Reynolds et al.	179/2A	May 30, 1980
	4,333,152	June 1, 1982	Best	364,521	June 13, 1980
	4,334,242	June 8, 1982	Mangold	358/127	Jan. 14, 1980
	4,336,553	June 22, 1982	den Toonder et al.	358/120	May 14, 1980
	4,336,559	June 22, 1982	Koyama et al.	360/73	Nov. 9, 1978
	4,337,480	June 29, 1982	Bourassin et al.	358/93	Feb. 8, 1990
	4,337,483	June 29, 1982	Guillou	358/114	Jan. 31, 1980
	4,338,628	July 6, 1982	Payne et al.	358/120	Dec. 19, 1979
	4,339,798	July 13, 1982	Hedges et al.	364/412	Dec. 17, 1979
	4,340,903	July 20, 1982	Tamura	358/10	Aug. 6, 1980
	4,347,498	Aug. 31, 1982	Lee et al.	340/825.02	Nov. 21, 1979
	4,347,532	Aug. 31, 1982	Korver	358/183	Oct. 14, 1980
	4,353,088	Oct. 5, 1982	den Toonder et al.	358/120	May 14, 1980
	4,354,201	Oct. 12, 1982	Sechet et al.	358/122	June 11, 1980
	4,355,372	Oct. 19, 1982	Johnson et al.	364/900	Dec. 24, 1980
	4,360,827	Nov. 23, 1982	Braun	358/85	June 2, 1981
	4,361,730	Nov. 30, 1982	Barber et al.	179/5 R	Aug. 29, 1980
	4,361,877	Nov. 30, 1982	Dyer et al.	364/900	Feb. 5, 1980
	4,364,081	Dec. 14, 1982	Hashimoto et al.	358/13	Apr. 16, 1981

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,365,110	Dec. 21, 1982	Lee et al.	178/22.10	June 5, 1979
	4,367,548	Jan. 4, 1983	Cotten, Jr. et al.	370/3	Apr. 10, 1980
	4,367,557	Jan 4, 1983	Stern et al.	455/4	May 25, 1979
	4,375,579	Mar. 1, 1983	Davida et al.	178/22.10	Jan. 30, 1980
	4,375,651	Mar. 1, 1983	Templin et al.	358/191.1	July 27, 1981
	4,379,205	Apr. 5, 1983	Wyner	178/22.10	June 22, 1979
	4,381,522	Apr. 26, 1983	Lambert	358/86	Dec. 1, 1980
	4,383,257	May 10, 1983	Giallanza et al.	340/825.47	Dec. 12, 1980
	4,388,643	June 14, 1983	Aminetzah	358/123	Apr. 6, 1981
	4,388,645	June 14, 1983	Cox et al.	358/147	Apr. 13, 1981
	4,389,671	June 21, 1983	Posner et al.	358/124	Sept. 29, 1980
	4,390,898	June 28, 1983	Bond et al.	358/119	Mar. 23, 1981
	4,390,901	June 28, 1983	Keiser	358/147	Oct. 16, 1980
	4,390,904	June 28, 1983	Johnston et al.	358/335	Sep. 20, 1979
	4,394,687	July 19, 1983	Hutt et al.	358/147	Apr. 30, 1980
	4,394,691	July 19, 1983	Amano et al.	358/194.1	July 30, 1981
	4,394,762	July 19, 1983	Nabeshima	371/38	Jan. 6, 1981
	4,395,757	July 26, 1983	Bienvenu et al.	364/200	Apr. 14, 1981
	4,396,947	Aug. 2, 1983	Cheung	358/124	Mar. 26, 1980
	4,398,216	Aug. 9, 1983	Field et al.	358/121	Sept. 19, 1980
	4,400,587	Aug. 23, 1983	Taylor et al.	179/27D	Aug. 25, 1981

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	4,404,589	Sept. 13, 1983	Wright, Jr.	358/86	Oct. 21, 1980
	4,405,942	Sept. 20, 1983	Block et al.	358/119	Mar. 3, 1982***
	4,410,917	Oct. 18, 1983	Newdoll et al.	360/15	Sept. 14, 1981
	4,413,339	Nov. 1, 1983	Riggle et al.	371/38	June 24, 1981
	4,422,105	Dec. 20, 1983	Rodesch et al.	358/903	Sep. 30, 1980
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	Applicants John C. Harvey and James W. Cuddihy		
	Filing Date: June 7, 1995	Group:	

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
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* - If pertinent

*** - Claims priority from parent application filed prior to Nov. 3, 1981

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	1 554 411	Oct. 17, 1979	Great Britain	H04b 3/54		X
	2 034 995	June 11, 1980	Great Britain	H03J 7/18, 5/00		X
	23 38 380	Feb. 13, 1975	Germany	abstract		X

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	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 7, 1995	Group 2602
Title: Signal Processing Apparatus and Method		

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
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	4,454,594	6/12/84	Heffron et al.	364/900	
	4,458,109	7/3/84	Mueller-Schloer	178/22.11	
	4,458,315	7/3/84	Uchenick	364/200	
	4,460,922	7/17/84	Ensinger et al.	358/122	

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	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 7, 1995	Group 2602
Title: Signal Processing Apparatus and Method		

U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,461,032	7/17/84	Skerlos	455/4	
	4,462,076	7/24/84	Smith, III	364/200	
	4,462,078	7/24/84	Ross	364/300	
	4,475,153	10/2/84	Kihara et al.	364/145	
	4,475,189	10/2/84	Herr et al.	370/62	
	4,476,573	10/9/84	Duckeck	455/45	
	4,484,027	11/20/84	Lee et al.	178/22.13	
	4,484,217	11/20/84	Block et al.	358/84	
	4,486,773	12/4/84	Okubo	358/84	
	4,488,289	12/11/84	Turner	370/60	
	4,491,945	1/1/85	Turner	370/60	
	4,494,156	1/15/85	Kadison et al.	360/48	
	4,494,230	1/15/85	Turner	370/60	
	4,503,287	3/5/85	Morris et al.	178/22.08	
	4,503,538	3/5/85	Fritz	371/28	
	4,507,680	3/26/85	Freeman	358/86	
	4,509,073	4/2/85	Baran et al.	358/86	
	4,512,011	4/16/85	Turner	370/60	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,513,324	4/23/85	Poetsch et al.	358/214	
	4,520,404	5/28/85	Von Kohorn	358/335	
	4,521,806	6/4/85	Abraham	358/86	
	4,527,194	7/2/85	Sirazi	358/86	
	4,531,020	7/23/85	Wechselberger et al.	178/22.08	
	4,531,021	7/23/85	Bluestein et al.	178/22.08	
	4,532,547	7/30/85	Bennett	358/148	
	4,533,948	8/6/85	McNamara et al.	358/122	
	4,533,949	8/6/85	Fujimura et al.	358/122	
	4,535,355	8/13/85	Arn et al.	358/123	
	4,538,174	8/27/85	Gargini et al.	358/86	
	4,539,676	9/3/85	Lucas	370/60	
	4,544,963	10/1/85	Jacoby et al.	360/40	
	4,546,382	10/8/85	McKenna et al.	358/84	
	4,546,387	10/8/85	Glaab	358/186	
	4,547,804	10/15/85	Greenberg	358/142	
	4,553,252	11/12/85	Egendorf	377/15	
	4,554,418	11/19/85	Toy	179/2 DP	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,558,464	12/10/85	O'Brien, Jr.	455/4	
	4,562,306	12/31/85	Chou et al.	178/22.08	
	4,562,465	12/31/85	Glaab	358/120	
	4,562,495	12/31/85	Bond et al.	360/78	
	4,566,030	1/21/86	Nickerson et al.	358/84	
	4,567,512	1/28/86	Abraham	358/86	
	4,573,072	2/25/86	Freeman	358/86	
	4,573,151	2/25/86	Jotwani	370/56	
	4,574,305	3/4/86	Campbell et al.	358/86	
	4,575,750	3/11/86	Callahan	358/86	
	4,577,289	3/18/86	Comerford et al.	364/900	
	4,580,165	4/1/86	Patton et al.	358/148	
	4,583,128	4/15/86	Anderson, Jr. et al.	358/302	
	4,584,641	4/22/86	Guglielmino	364/200	
	4,586,134	4/29/86	Norstedt	364/200	
	4,588,991	5/13/86	Atalla	340/825.31	
	4,589,064	5/13/86	Chiba et al.	364/200	
	4,590,516	5/20/86	Abraham	358/86	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,591,248	5/27/86	Freeman	352/133	
	4,591,664	5/27/86	Freeman	179/6.06	
	4,591,906	5/27/86	Morales-Garza et al.	358/84	
	4,592,546	6/3/86	Fascenda et al.	273/1 E	
	4,593,376	6/3/86	Volk	364/900	
	4,595,950	6/17/86	Löfberg	358/122	
	4,596,021	6/17/86	Carter et al.	375/5	
	4,597,058	6/24/86	Izumi et al.	364/900	
	4,598,288	7/1/86	Yarbrough et al.	340/825.34	
	4,599,611	7/8/86	Bowker et al.	340/721	
	4,599,647	7/8/86	George et al.	358/122	
	4,602,279	7/22/86	Freeman	358/86	
	4,603,232	7/29/86	Kurland et al.	179/2 AS	
	4,605,973	8/12/86	Von Kohorn	358/335	
	4,608,456	8/26/86	Paik et al.	179/1.5 S	
	4,613,901	9/23/86	Gilhouseen et al.	358/122	
	4,616,263	10/7/86	Eichelberger	358/185	
	4,620,224	10/28/86	Lee et al.	358/119	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,625,235	11/25/86	Watson	358/86	
	4,630,108	12/16/86	Gomersall	358/84	
	4,630,262	12/16/86	Callens et al.	370/81	
	4,634,807	1/6/87	Chorley et al.	178/22.08	
	4,634,808	1/6/87	Moerder	178/22.14	
	4,635,121	1/6/87	Hoffman et al.	358/188	
	4,638,181	1/20/87	Deiss	307/243	
	4,638,359	1/20/87	Watson	358/147	
	4,639,779	1/27/87	Greenberg	358/142	
	4,641,205	2/3/87	Beyers, Jr.	360/33.1	
	4,641,253	2/3/87	Mastran	364/328	
	4,641,307	2/3/87	Russell	370/60	
	4,646,075	2/24/87	Andrews et al.	340/747	
	4,647,964	3/3/87	Weinblatt	358/84	
	4,656,629	4/7/87	Kondoh et al.	370/85	
	4,658,093	4/14/87	Hellman	380/25	
	4,677,434	6/30/87	Fascenda	380/23	
	4,677,466	6/30/87	Lert, Jr. et al.	358/84	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,677,611	6/30/87	Yanosy, Jr. et al.	370/85	
	4,680,581	7/14/87	Kozlik et al.	340/825.06	
	4,684,980	8/4/87	Rast et al.	358/86	
	4,685,056	8/4/87	Barnsdale, Jr. et al.	364/200	
	4,685,131	8/4/87	Horne	380/20	
	4,688,247	8/18/87	Davidov	380/19	
	4,689,022	8/25/87	Peers et al.	434/307	
	4,689,619	8/25/87	O'Brien, Jr.	340/825.08	
	4,692,817	9/8/87	Theis	360/12	
	4,692,819	9/8/87	Steele	360/72.1	
	4,694,491	9/15/87	Horne et al.	380/20	3/11/85
	4,695,953	9/22/87	Blair et al.	364/410	4/14/86
	4,696,034	9/22/87	Wiedemer	380/16	10/12/84
	4,697,281	9/29/87	O'Sullivan	379/59	3/14/86
	4,701,794	10/20/87	Fröling et al.	358/147	4/12/85
	4,706,121	11/10/87	Young	358/142	5/6/86
	B1 4,706,121	12/14/93	Young	358/142	5/6/86
	4,706,282	11/10/87	Knowd	380/3	12/23/85

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date*
	4,707,828	11/17/87	Yamada	370/85	9/10/85
	4,709,418	11/24/87	Fox et al.	455/612	9/14/83
	4,710,955	12/1/87	Kauffman	380/10	11/25/85
	4,712,105	12/8/87	Köhler	340/825.69	4/30/85
	4,712,238	12/8/87	Gilhousen et al.	380/20	6/8/84
	4,712,239	12/8/87	Frezza et al.	380/20	6/16/86
	4,722,526	2/2/88	Tovar et al.	273/1 E	1/20/87
	4,724,491	2/9/88	Lambert	358/310	8/28/84
	4,725,886	2/16/88	Galumbeck et al.	358/147	4/21/83
	4,728,949	3/1/88	Platte et al.	340/825.37	3/23/84
	4,731,679	3/15/88	O'Gwynn et al.	360/73	9/20/84
	4,733,301	3/22/88	Wright, Jr.	358/181	6/26/87
	4,734,764	3/29/88	Pocock et al.	358/86	5/6/85
	4,737,993	4/12/88	DeVilbiss	455/180	1/21/87
	4,739,510	4/19/88	Jeffers et al.	380/15	4/2/87
	4,740,890	4/26/88	William	364/200	12/22/83
	4,745,468	5/17/88	Von Kohorn	358/84	3/10/86
	B1 4,745,468	6/11/91	Von Kohorn	358/84	3/10/86

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,745,598	5/17/88	Ulug	370/89	11/27/85
	4,747,139	5/24/88	Taaffe	380/44	10/21/86
	4,748,560	5/31/88	Kataoka	364/200	10/11/85
	4,750,036	6/7/88	Martinez	358/147	5/14/86
	4,750,213	6/7/88	Novak	455/67	6/9/86
	4,751,578	6/14/88	Reiter et al.	358/183	5/28/85
	4,751,665	6/14/88	Cappello et al.	364/748	2/24/86
	4,754,326	6/28/88	Kram et al.	364/900	10/25/83
	4,755,871	7/5/88	Morales-Garza et al.	358/84	11/25/86
	4,755,883	7/5/88	Uehira	358/335	9/11/85
	4,761,646	8/2/88	Choquet et al.	340/825.520	5/20/86
	4,763,317	8/9/88	Lehman et al.	370/58	12/13/85
	4,768,087	8/30/88	Taub et al.	358/84	6/6/85
	4,768,110	8/30/88	Dunlap et al.	360/33.1	5/6/87
	4,771,456	9/13/88	Martin et al.	380/10	11/6/86
	4,775,935	10/4/88	Yourick	364/401	9/22/86
	4,783,846	11/8/88	Wachob	455/151	6/4/87
	4,786,979	11/22/88	Claus et al.	358/335	5/22/86

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	4,787,063	11/22/88	Muguet	364/900	10/16/85
	4,787,085	11/22/88	Suto et al.	370/110.1	5/29/87
	4,789,863	12/6/88	Bush	340/825.350	1/13/88***
	4,792,849	12/20/88	McCalley et al.	358/86	8/4/87
	4,792,973	12/20/88	Gilhousen et al.	380/24	12/4/87***
	4,802,114	1/31/89	Sogame	364/900	12/15/86
	4,803,725	2/7/89	Horne et al.	380/44	5/14/87
	4,805,014	2/14/89	Sahara et al.	358/86	9/14/87***
	4,812,843	3/14/89	Champion, III et al.	340/905	8/11/87
	4,813,011	3/14/89	Kulakowski et al.	364/900	5/13/85
	4,815,129	3/21/89	Griffin et al.	380/15	1/2/85
	4,816,905	3/28/89	Tweedy et al.	358/86	4/30/87
	4,821,032	4/11/89	Shimada et al.	340/825.210	12/23/85
	4,821,102	4/11/89	Ichikawa et al.	358/183	7/29/87
	4,827,508	5/2/89	Shear	380/4	10/14/86
	4,829,372	5/9/89	McCalley et al.	358/86	8/20/87
	4,833,710	5/23/89	Hirashima	380/20	12/3/87***
	4,837,858	6/6/89	Ablay et al.	455/34	4/30/87

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	4,845,491	7/4/89	Fascenda et al.	340/825.44	5/15/87
	4,847,698	7/11/89	Freeman	358/343	7/16/87
	4,847,699	7/11/89	Freeman	358/343	7/16/87
	4,847,700	7/11/89	Freeman	358/343	7/16/87
	4,860,379	8/22/89	Schoeneberger et al.	455/5	10/20/88***
	4,866,706	9/12/89	Christophersen et al.	370/85.7	8/27/87
	4,868,866	9/19/89	Williams, Jr.	380/49	2/18/88***
	4,876,592	10/24/89	Von Kohorn	358/84	5/10/88***
	4,887,172	12/12/89	Steele	360/73.06	4/10/87
	4,888,796	12/19/89	Olivo, Jr.	379/101	8/31/87
	4,890,321	12/26/89	Seth-Smith et al.	380/20	9/30/88***
	4,893,248	1/9/90	Pitts et al.	364/464.01	2/6/87
	4,908,713	3/13/90	Levine	358/335	6/29/88***
	4,916,539	4/10/90	Galumbeck	358/142	3/14/89***
	4,926,255	5/15/90	Von Kohorn	358/84	5/10/88***
	4,941,040	7/10/90	Pocock et al.	358/86	2/10/88***
	4,963,994	10/16/90	Levine	358/335	2/23/90***
	4,969,209	11/6/90	Schwob	455/158	6/29/88***

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	4,974,252	11/27/90	Osborne	379/92	10/4/88***
	4,977,594	12/11/90	Shear	380/4	2/16/89***
	5,010,571	4/23/91	Katznelson	380/4	9/10/86
	5,034,807	7/23/91	Von Kohorn	358/84	10/19/89***
	5,036,537	7/30/91	Jeffers et al.	380/20	4/3/87
	5,045,848	9/3/91	Fascenda	340/825.26	9/29/87***
	5,050,213	9/17/91	Shear	380/25	8/6/90***
	5,057,915	10/15/91	Von Kohorn	358/84	10/25/90***
	5,060,140	10/22/91	Brown et al.	364/200	1/16/86
	5,083,271	1/21/92	Thacher et al.	364/411	8/3/88***
	5,089,885	2/18/92	Clark	358/86	8/1/88***
	5,128,752	7/7/92	Von Kohorn	358/84	10/25/90***
	5,140,419	8/18/92	Galumbeck et al.	358/142	12/21/89***
	5,144,663	9/1/92	Kudelski et al.	380/16	11/13/90***
	5,152,011	9/29/92	Schwob	455/158.5	6/19/90***
	5,152,012	9/29/92	Schwob	455/158.5	4/27/90***
	5,172,111	12/15/92	Olivo, Jr.	340/825.31	12/18/89***
	5,177,604	1/5/93	Martinez	358/86	6/3/88***

Examiner	Date Considered

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	5,191,410	3/2/93	McCalley et al.	358/86	2/5/91***
	5,195,092	3/16/93	Wilson et al.	370/94.2	8/30/91***
	5,208,665	5/4/93	McCalley et al.	358/86	2/15/91***
	5,216,552	6/1/93	Dunlap et al.	360/33.1	8/30/88***
	5,227,874	7/13/93	Von Kohorn	358/84	10/15/91***
	5,283,734	2/1/94	Von Kohorn	364/412	9/19/91***
	D302,178	7/11/89	King	D20/1	11/28/86
	Re. 32,835	1/17/89	Howard	333/21 A	11/6/85
	Re. 33,662	8/13/91	Blair et al.	364/410	9/21/89***
	Re. 34,034	8/18/92	O'Sullivan	379/59	9/29/89***

*- If pertinent

***- Claims priority from parent application filed prior to Sep. 11, 1987.

Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Translation	
					Yes	No
	0 055 674	7/7/82	European Patent Appl.	H04L 11/20		X

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	0 128 481 A2	12/19/84	European Patent Appl.	H04N 7/00		X
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	"Video Hi-Tech Component TV," CV 1950, CV 510, CV 540, CV 520, CV 150," advertisement, Zenith Radio Corporation, 4 pages.
	"Point-To-Multipoint Data Communication Network Services," product description, Equatorial Communications Company, 5 pages.
	"C-100 Series Micro Earth Stations for Satellite Data Distribution," product description, Equatorial Communications Company, 4 pages.
	"C-200 Micro Earth Station for Satellite Data Communications," product description, Equatorial Communications Company, 3 pages.

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Information Disclosure Statement by Applicant	Attorney Docket No. 5634.318	Serial No. 08/487,411
	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 7, 1995	Group 2602
Title: Signal Processing Apparatus and Method		

Other Documents

Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
	"Interactive Data Communication Network Services," product description, Equatorial Communications Company, 3 pages.
	"Data Communications Network Description," product description, Equatorial Communications Company, 5 pages.
	Landro, Laura, "Satellite Company Signs Merrill Lynch For Its Video Service," <u>The Wall Street Journal</u> , 1 page.
	"ELITE 2000 Creation System," IBM Compatible Information Display System, advertisement, Display Systems International, Inc., 1 page.
	"Video Database Management . . . When Words Are Not Enough," advertisement, U.S. Video, 2 pages.
	"U.S. Video presents . . . True Computer-Video Overlays," The Raster Master RM-110, product description, U.S. Video, 2 pages.
	"Now You Can Find Just The Right Image Every Time Quickly and Easily with Image Search and The IBM PC/XT," advertisement, ONLINE Computer Systems, Inc., 1 page.
	"Touch the Future Today," advertisement, MetaMedia Systems, Inc., 1 page.
	"Training solutions for the 80's and beyond," advertisement, ONLINE Computer Systems, Inc., 2 pages.
	"Experienced Educator/Trainers," "Use the new PILOT plus Training System to develop highly interactive courseware on your IBM PC that will run on most microcomputers," advertisement, ONLINE Computer Systems, Inc., 2 pages.

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	"Technical Specifications For Hardware And Software Products," Online Products Corporation, 9 pages.
	"Museum Image Series," product information, ONLINE Products Corporation, 2 pages.
	"OMEGA VISION," product description, Omega Management Group Corp., 2 pages.
	"VISAGE Visual Information Systems," Interactive Video Products, brochure, Visage, Inc.
	"Now The Future Is Clear," Visage Visual Information Systems, brochure, Visage, Inc., 4 pages.
	"Speak Through The Power Of Today's Technology," QUEST, product description, Allen Communication, 4 pages.
	"Universal Video Controller," product description, Allen Communication, 2 pages.
	"Video-Microcomputer Interface," product description, Allen Communication, 2 pages.
	"The Leader In Interactive Video," advertisement, Allen Communication, 2 pages.
	"Allen Communication Price List," Allen Communication, 1 page.
	"TOUCHÉ Interactive videodisc training by IIAT," advertisement, IIAT, International Institute of Applied Technology, Inc., 1 page.
	"TOUCHÉ Interactive Videodisc System," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.

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	"IIAT ST-1000A IIAT Training Station," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.
	"IIAT ST-1000B IIAT Training Station," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.
	"IIAT International Institute of Applied Technology, Inc.," company description, 4 pages.
	"PILOT plus Course Authoring Interpreter," IIAT Products, product description, 1 page.
	"Touch Monitor/Videodisc Player Interface Card and Video Switch Box," IIAT Products, product description, 1 page.
	"Touch Sensitive Monitor Interface Card for Apple II," IIAT Products, product description, 1 page.
	"Touchpoint, A Total Eclipse of Existing Technology," product description, Allen Communication, 2 pages.
	"Totally Integrated Interactive System - TII-PC," product description, Allen Communication, 2 pages.
	"Most Valuable Peripheral," product description, Allen Communication, 2 pages.
	"Allen Communication Introduces Integrated Interactive Video Systems," brochure, 2 pages.
	"Automation, Control and Monitoring Systems," brochure, Jasmin Electronics Limited.
	"jasmin," company brochure, Jasmin Electronics Limited, 4 pages.
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	"jasmin Teletext Systems," advertisement, Jasmin Electronics Limited, 4 pages.
	"jasmin Process Control Systems," advertisement, Jasmin Electronics Limited, 4 pages.
	"Teleprompter of Denver Channel Line Up," 2 pages.
	"City of Seal Beach Channel Utilization Guide," 3 pages.
	"V: Link 1910: The Single-Slot VGA Interactive Video Solution," product description, Visage, Inc., 4 pages.
	"The OASYS Authoring System," advertisement, ONLINE Computer Systems, Inc., 1 page.
	"Advertisers Guide to Cable TV Terms," brochure, Cable Ad Associates, Inc.
	"Cable Audience Measurement Study," A Prospectus based upon recommendations of the Ad Hoc Cable Measurement Committee, pamphlet.
	Kane, Sharyn et al., "Technology in the First Person," reprint from Delta Air Lines' SKY magazine, 4 pages.
	"Training Systems," brochure, WICAT systems, Training Systems Division, 4 pages.
	"The Consultant," advertisement, CO-OPPORTUNITIES, Sales Development Information Systems, a division of Jefferson-Pilot Communications Company.
	"Introducing SPOT DATA," "Cable Ad Sales Just Got Better," advertisement, TV Data Technologies, 4 pages.

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	"Do You Want to be Making \$5-\$10 a Subscriber - Right Now?" "Join Us in Our Success!", advertisement, Multi-Image Systems, 1 page.
	"Mediastar," "the message is clear," brochure, Multi-Image Systems, 6 pages.
	"Art To Go" "The Business Builder in a Box," advertisement, Multi-Image Systems, 1 page.
	"Few Things In Life Work As Well As TAPSCAN," advertisement, TAPSCAN Incorporated, 6 pages.
	"Dow Jones Cable News Service Daily Features Financial Markets," product summary, 1 page.
	"Financial News Network The Business Connection," brochure, Financial News Network, 8 pages.
	"The Financial News Network Means Business," advertisement, The Financial News Network, 1 page.
	"The Dawn of a New Era in Financial News Broadcasting," advertisement, Financial News Network, 1 page.
	"FNN Financial News Network," advertisement, brief review of research from the Stanford Research Institute's VALS study, and research from ELRA Group Cablemark Reports Volume I, 4 pages.
	"Industrial Skills Training With The Touch Of A Finger . . . Introducing . . . Activ," Advanced Concepts in Touch-Interactive Video, advertisement, Industrial Training Corporation, 4 pages.

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	"eca," brochure, Effective Communication Arts, Inc., 4 pages.
	"ODC 612 Encoder/Generator," product description, Optical Disc Corporation, 2 pages.
	"... the Recordable Laser Videodisc - RLV," product description, Optical Disc Corporation, 2 pages.
	"ODC 610 Videodisc Recording System," product description, Optical Disc Corporation, 2 pages.
	"Hitachi New CD-ROM Drive CDR-2500," product description, Hitachi, Ltd., 2 pages.
	"Hitachi CD-ROM Drive CDR-1502S," product description, Hitachi, Ltd., 6 pages.

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